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L6: Entry 1 of 3

File: USPT

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TITLE: Polymer composites having an oxyhalo surface and methods for making same

Detailed Description Text (101):

Other particularly useful functionalities which may be covalently bonded with the oxyfluoropolymer composites and surface-oxyhalogenated non-halopolymer composites of the present invention through their reactive oxygen-containing sites include fluorophores. As used herein, fluorophores include organic compounds that may fluoresce. The preferred fluorophores are the isothiocyanate substituted types, such as fluorescein isothiocyanate ("FITC"), malachite green isothiocyanate, rhodamines (e.g., tetramethylrhodamine isothiocyanate ("TRITC")), and the like. Other suitable isothiocyanate substituted fluorophores are described in Haughland, Handbook of Fluorescent Probes and Research Chemicals, Molecular Probes, Inc. (1989), which is hereby incorporated by reference and are available from Molecular Probes, Inc. Oxyhalopolymer composites and surface-oxyhalogenated non-halopolymer composites that are refunctionalized with isothiocyanate substituted fluorophores are especially useful in a wide variety of probes and sensors, such as for nucleic acids.

